

**Bibliographic Information**

**Thermal chlorination of methane.** Kochmann, Werner; Hentschel, Helmut; Jahn, Heinz; Eidner, Rudolf. (VEB Chemiekombinat Bitterfeld). Ger. Offen. (1970), 13 pp. CODEN: GWXXBX DE 1936940 19700430 Patent written in German. Application: DE 69-1936940 19690721. CAN 73:14147 AN 1970:414147 CAPLUS (Copyright 2004 ACS on SciFinder (R))

**Patent Family Information**

<u>Patent No.</u>	<u>Kind</u>	<u>Date</u>	<u>Application No.</u>	<u>Date</u>
DE 1936940	A	19700430	DE 1969-1936940	19690721
CS 150284	P	19730904	CS 1969-6463	19690925
RO 55989	P	19731120	RO 1969-61170	19691002

Priority Application

DD 1968-135394	19681016
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**Abstract**

A mixt. of  $\text{CH}_2\text{Cl}_2$ ,  $\text{CHCl}_3$  and  $\text{CCl}_4$  was prepd. by direct thermal chlorination of methane with  $\text{Cl}_2$ . Thus, the cycling gas at 20-40° contg.  $\text{CH}_4$  and  $\text{Cl}_2$  was passed into a flow reactor contg. a core resistant to acid with a residence time of 3-10 sec at 430-90°. The start of the reaction was facilitated by 0.02-0.5%  $\text{COCl}_2$  formed from  $\text{CO}$  in the cycling gas. Since the soot formation increased with increasing temp. it was better to increase the time of contact.

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